

AMENDMENTS TO THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 4, 7, and 11 to read as follows:

1. (PREVIOUSLY PRESENTED) A method of detecting an abnormal video signal in a display device, comprising:

selecting an R,G,B signal including video signal and setting a region of the selected R,G,B signal to be checked;

detecting a minimum pixel level value in the checked region of the selected R,G,B signal;

comparing the minimum pixel level value for the selected R,G,B signal with a predetermined threshold value and checking if an abnormal R,G,B signal is present; and

displaying on a screen a message indicating whether the selected R,G,B signal includes an abnormal video signal.

2. (ORIGINAL) The method of claim 1, wherein the comparing comprises:

setting a flag which indicates whether the selected R,G,B signal is abnormal when the minimum pixel level value is smaller than a predetermined threshold value, and

resetting the flag when the minimum pixel level value is larger than the predetermined threshold value.

3. (ORIGINAL) The method of claim 1, wherein the displaying comprises:

checking whether a flag indicating whether the selected R,G,B signal is abnormal is set;

checking if a video signal checking function is enabled when the flag is set; and

setting how long the message will be displayed and how long a predetermined warning message is displayed, when enabling of the video signal checking function is confirmed.

4. (CURRENTLY AMENDED) A display device comprising:

a signal inputting unit receiving R,G,B signals including video signals, a horizontal synchronization signal, and a vertical synchronization signal;

a minimum value detector detecting a minimum pixel level value in a particular region of a selected R,G,B signal input from the signal inputting unit;

a controller comparing the minimum pixel level value with a predetermined value and checking whether the selected R,G,B signal includes an abnormal video signal; and

a warning message indicating an abnormal state of the selected R,G,B signal as determined by the controller.

5. (ORIGINAL) The display device of claim 4, wherein the minimum value detector comprises:

a signal selector selecting one of the received R,G,B signals;

a storage unit stores the minimum pixel level value detected in the particular region of the selected R,G,B signal; and

a comparator comparing the minimum pixel level value in the particular region of the selected R,G,B signal with a stored minimum pixel level value detected in a particular region of a previous R,G,B signal, and thereby detects the minimum pixel level value .

6. (ORIGINAL) The display device of claim 4, wherein the controller generates an on-screen-display (OSD) signal that enables and disables an R,G,B, signal checking function .

7. (CURRENTLY AMENDED) A method of detecting an abnormal video signal in a display device, comprising:

receiving R,G,B signals including video signals from a host;

detecting a minimum pixel level value in a selected portion of an R,G,B, signal selected from the received R,G,B signals;

determining if the selected R,G,B signal is abnormal based on a comparison between the minimum pixel level value in the selected R,G,B signal and a predetermined value; and

displaying on a screen a message indicating whether the selected R,G,B signal is includes an abnormal video signal.

8. (ORIGINAL) The method of claim 7, wherein the determining comprises:

comparing the minimum pixel level value within the selected R,G,B signal with the predetermined value;

extracting a minimum pixel level value when the pixel level value in the selected R,G,B signal is smaller than the predetermined value.

9. (ORIGINAL) The method of claim 7, wherein the determining comprises:
setting a flag indicating whether the selected R,G,B signal is abnormal when the
minimum pixel level value is smaller than the predetermined value, and
resetting the flag when the minimum pixel level value is larger than the predetermined
value.

10. (ORIGINAL) The method of claim 7, wherein the displaying comprises:
checking whether a flag indicating whether the selected R,G,B signal is abnormal is set;
checking if a video signal checking function is enabled when the flag is set; and
setting how long the message will be displayed and how long a predetermined warning
message is displayed on the screen when the video signal checking function is enabled.

11. (CURRENTLY AMENDED) A display device comprising:
a signal inputting unit receiving R,G,B video signals;
an abnormal state detector detecting an abnormal video signal in an R,G,B signal
selected from among the received R,G,B signals based on a comparison of a detected pixel
level value in a portion of the R,G,B signal and a predetermined value; and
a warning message indicator indicating whether an abnormal video signal is detected.

12. (PREVIOUSLY PRESENTED) The display device of claim 11, wherein the
abnormal state detector comprises:
a minimum value detector detecting a minimum pixel level value in the selected R,G,B
signal; and
a controller which compares the minimum pixel level value with a predetermined value
and checks if the selected R,G,B signal is abnormal.

13. (PREVIOUSLY PRESENTED) The display device of claim 12, wherein the
minimum value detector comprises:
a signal selector selecting one of the received R, G, B signals;
a storage unit storing the minimum pixel level value detected in the selected R,G,B
signal;
a comparator comparing the minimum pixel level value in the selected R,G,B signal with
a minimum pixel level value detected in a previous signal, and extracts a minimum pixel level

value.

14. (PREVIOUSLY PRESENTED) The display device of claim 12, wherein the controller generates a set flag when an abnormal signal is detected.

15. (PREVIOUSLY PRESENTED) The display device of claim 11, wherein the controller generates an on-screen-display (OSD) signal that enables or disables a signal checking function.